This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/851,765	05/09/2001	Rory A. Heim	10006454-1	3814	
7	590 12/27/2001				
HEWLETT-PACKARD COMPANY			EXAMINER		
Intellectual Property Administration P. O. Box 272400 Fort Collins, CO 80527-2400			NGHIEM, M	NGHIEM, MICHAEL P	
			ART UNIT	PAPER NUMBER	
			2861		

DATE MAILED: 12/27/2001

Please find below and/or attached an Office communication concerning this application or proceeding.

;		Application No.	Applicant(s)			
Office Action Summary		09/851,765	HEIM ET AL.			
		Examiner	Art Unit			
<u> </u>		Michael P Nghiem	2861			
Period f	The MAILING DATE of this communication appears n the cover sheet with the correspondence address Period f r Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status 1)□	Responsive to communication(s) filed on					
2a)□						
3)□						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠	Claim(s) $1-21$ is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,2,5-14 and 16-20</u> is/are rejected.						
7)🖂	Claim(s) <u>3,4,15 and 21</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)⊠ Т	he specification is objected to by the Examiner.	•				
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) ☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
2) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s) 4.		(PTO-413) Paper No(s) atent Application (PTO-152)			
0.0000000000		<u> </u>				

Application/Control Number: 09/851,765

Art Unit: 2861

DETAILED ACTION

Specification

- 1. The disclosure is objected to because of the following informalities:
- US Patent Application number (page 17, line 28) is missing.

Appropriate correction is required.

Claim Objections

- 2. Claim 6 is objected to because of the following informalities:
- after "ink usage" (line 2) should insert -- which --.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Art Unit: 2861

Claim 1, is the control device different from the ink extraction determining device?

Claim 9, is the control device different from the monitoring device?

The remaining claims are also rejected under 35 U.S.C. 112, second paragraph, for being dependent upon a rejected base claim.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in-

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or (2) a patent granted on an application for patent by another filed in the United States before the

(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

Claims 1, 2, 5-14, and 16-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Cook (US 6,155,664).

Cook discloses all the claimed features of the invention including:

- an inkjet printing system (Fig. 1) configured for receiving a replaceable ink container
- (2), the replaceable ink container having ink extraction characteristics that vary with ink extraction (ink-specific information), the inkjet printing system comprising:

Application/Control Number: 09/851,765

Art Unit: 2861

Page 4

- an ink extraction determining device (36) for determining ink extracted from the replaceable ink container (90, 94);
- a control device (36) for selecting a print mode based on ink extraction characteristics of the replaceable ink container (92, print primary ink),
- the control device selects the print mode for selectively pausing printing (91) to reduce an average ink usage rate,
- the replaceable ink container has a gauge pressure characteristic based on ink usage varies with ink level within the ink container (negative pressure in 2 changes with ink level),
- the replaceable ink container has ink extraction characteristics that vary with ink level within the replaceable ink container (ink-specific information includes ink level information, column 5, lines 19-20),
- ink extraction characteristics are stored on an electrical storage device (12) associated with the replaceable ink container and wherein the ink extraction characteristics are provided to the control device after installation of the replaceable ink container into the inkjet printing system (Fig. 1),
- the information storage device is a semiconductor storage device (EEPROM or NVRAM device 12),
- a printhead (24) responsive to control signals for depositing ink on media and an ink delivery system (8) for delivering ink to the printhead (Fig. 1),
- a monitoring device (36) for monitoring ink delivered to the printhead by the ink delivery system (Fig. 1);

Art Unit: 2861

- the control device adjusts print rate based on a rate of ink deposited on media and a rate of ink delivered to the printhead (print or not print based on threshold level and drop count, column 11, lines 5-33),

- the monitoring device determines an amount of ink delivered to the printhead over a given time interval based on an extraction rate for an ink container that is determined based on ink remaining in the ink container (column 11, 34-46),

- the control device adjusts print rate to prevent the print rate from exceeding a rate of ink delivered to the printhead by more than a threshold value (does not print if drop count is less than a threshold level, 90, Fig. 4).

Allowable Subject Matter

5. Claims 3, 4, 15, and 21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Reasons For Allowance

6. The combination and method as claimed wherein the control device selects the print mode from a plurality of print modes (claims 3, 4) or the control device adjusts print rate by selectively controlling numbers of nozzles activated (claims 15, 21) is not disclosed, suggested, or made obvious by the prior arts of record.

Art Unit: 2861

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Nghiem whose telephone number is (703) 306-3445. An inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist at (703) 308-0956.

Michael Nghiem

December 18, 2001